ame of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

EMB

ame of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

PRE-MEASUREMENT

"FIRST AND FINAL BILL"

ame of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

led Measurements

	Discription of Item	No	Length	A.Breadth	A.Depth	Qty	Unit
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications..iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar						
	Old Toilet						
	Outer wall Size Stone West	2	7.00	0.60	1.20	10.08	
	Outer wall Size Stone South	1	11.50	0.60	1.20	8.28	
	Internal Walls	5	2.00	0.60	0.90	5.40	
	Internal Walls	2	4.00	0.60	0.90	4.32	
					Present Qty	**28.08**	**Cum**
					Upto 125%	**24.48**	**Cum**
					Above 125%	**3.61**	**Cum**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer,
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ame of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

iled Measurements							
tem No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	Dismantling the tile work in floor and roof laid in cement or surki mortar including stacking the materials with in 50 m lead of tiles thickness 10mm to 25mm. including cost of materials, labour, HOM complete as per specifications.						
	Old Toilet Flooring					80.50	
		1	11.50	7.00			
					Present Qty	**80.50**	**Sqm**

NEMZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

3

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	Easing of shutters of door. including cost of materials, labour, HOM complete as per specifications.						
	Old Toilet						
	Door Shutters	6				6.00	
					Present Qty	**6.00**	**Nos**

NEW ZEN CONSULTANTS Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

etailed Measurements

leasurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	Scraping plaster in lime or cement mortar from brick / stone masonry.						
	Old Toilet						
	Outer Wall	2	7.00		2.60	36.40	
	Outer Wall	2	11.50		2.60	59.80	
	Internal walls	5	2.00		2.60	26.00	
	Internal walls	2	4.00		2.60	20.80	
	Deductions D	-5	0.90		2.10	-9.45	
	D1	-6	1.20		2.10	-15.12	
					Present Qty	**118.43**	**Sqm**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

5

Detailed Measurements

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit
5	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. By mechanical means. A cement concrete grade M-15m & M-20.						
	old Toilet						
	Top Slab	1	11.50	7.00	0.15	12.08	
	Roof beam	2	11.50	0.23	0.60	3.17	
		4	7.00	0.23	0.60	3.86	
	Floor Concrete	1	11.50	7.00	0.15	12.08	
					Present Qty	**31.19**	**Cum**

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

6

easurement Recorded On:

tem No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
6	Dismantling CI or AC rain water Pipes with fittings and clamps and stacking the materials with a lead of 50 meters. including cost of materials, labour, HOM complete as per specifications.						
	old Toilet						
		1	20.00			20.00	
		1	30.00			30.00	
					Present Qty	**50.00**	**Mtr**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer,
Project Division Yelahanka

ame of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

tailed Measurements

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
7	Dismantling weather proof course and removing and conveying the debris to a distance upto 200m. including cost of materials, labour, HOM complete as per specifications.						
	Old Toilet						
	Top Slab	1	11.50	7.00	0.10	8.05	
						8.05	**Cum**

NEWZEN CONSULTANT ★ Bangalore ★

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
8	Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.						
	Qty Item No-1					28.08	
	Qty Item No-2					80.50	
	Qty Item No-4					118.43	
	Qty Item No-5					31.19	
	Qty Item No-7					8.05	
	Qty Item E-1					30.16	
					Present Qty	**296.41**	**Cum**
					Upto 125%	**75.46**	**Cum**
					Above 125%	**220.95**	**Cum**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BCAD, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

ısurement Recorded On:

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.						
	NES Circle Clock Tower						
	For Footing C2 F1	4	1.70	1.70	3.20	37.0	
	For Footing C1	1	3.30	3.30	3.20	34.85	
	SSM Protection Wall East Side of Clock Tower						
	East Side	1	7.25	0.90	0.90	5.87	
		1	6.35	0.90	0.90	5.14	
		1	7.25	0.90	0.90	5.87	
	West Side	1	6.45	0.90	0.90	5.22	
		1	8.30	0.90	0.90	6.72	
		1	6.45	0.90	0.90	5.22	
	For Sump	1	2.90	3.10	1.50	13.49	
	SSM Protection Wall West Side of Clock Tower						
		1	16.50	0.90	0.90	13.37	
		1	6.30	0.90	0.90	5.10	
		1	16.50	0.90	0.90	13.37	
		1	8.20	0.90	0.90	6.64	
					Present Qty	**157.86**	**Cum**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

A.E.E. (Project)

Asst. Executive Enginee
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ame of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

iled Measurements

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Providing and filling in foundation with granite / trap borken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification. (Soling) with all lead and lift and directions of the Engineer-In-charge of the work.						
NES Circle Clock Tower					2.31	
For Footing C2 F1	4	1.70	1.70	0.20	2.18	
For Footing C1	1	3.30	3.30	0.20		**Cum**
				Present Qty	**4.49**	

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer,
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

urement Recorded On:

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted in foundation including cost of all materials, labour HOM of machinery, curing complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.						
NES Circle Clock Tower						
For Footing C2 F1	4	1.70	1.70	0.15	1.73	
For Footing C1	1	3.30	3.30	0.15	1.63	
Plat form Concrete	1	7.00	7.00	0.20	9.80	
SSM Protection Wall East Side of Clock Tower						
East Side	1	7.25	0.90	0.15	0.98	
	1	6.35	0.90	0.15	0.86	
	1	7.25	0.90	0.15	0.98	
West Side	1	6.45	0.90	0.15	0.87	
	1	8.30	0.90	0.15	1.12	
	1	6.45	0.90	0.15	0.87	
For Sump	1	2.90	3.10	0.15	1.35	
SSM Protection Wall West Side of Clock						
	1	16.50	0.90	0.15	2.23	
	1	6.30	0.90	0.15	0.85	
	1	16.50	0.90	0.15	2.23	
	1	8.20	0.90	0.15	1.11	
Footpath from East Side of Clock Tower						
East Side	1	9.50	1.10	0.15	1.57	
	1	30.00	1.10	0.15	4.95	
	1	10.00	1.10	0.15	1.65	
	1	9.50	1.10	0.15	1.57	
	1	30.00	1.10	0.15	4.95	
	1	10.00	1.10	0.15	1.65	
				Present Qty	**42.94**	**Cum**
				Upto 125%	**24.66**	**Cum**
				Above 125%	**18.28**	**Cum**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

A.E.E. (Project)

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

ailed Measurements

tem No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
13	Providing and laying in position plain **cement concrete of mix M15** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and sills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.						
	Footpath from East Side of Clock Tower						
	East Side	1	9.50	1.10	0.10	1.05	
		1	30.00	1.10	0.10	3.30	
		1	10.00	1.10	0.10	1.10	
		1	9.50	1.10	0.10	1.05	
		1	30.00	1.10	0.10	3.30	
		1	10.00	1.10	0.10	1.10	
					Present Qty	**10.89**	**Cum**

NEWZEN CONSULTANT ★ Bangalore ★

Assistant Engineer
Project Division Yelahanka

A.E.E. (Project)

Asst. Executive Engineer,
Project Division Yelahanka

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

surement Recorded On:

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (Inside platrform , sides and sides of the area) with all lead and lift and directions of the Engineer-In-charge of the work.						
NES Circle Clock Tower						
Total Earth work Qty					157.86	
Deduct Footing, Coloumn Qty up to plinth					-10.15	
East Side	1	7.25	6.35	0.30	13.81	
West Side	1	6.45	6.35	0.30	12.29	
Present Qty					**173.81**	**Cum**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

14

leasurement Recorded On:

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
17	Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.						
	NES Circle Clock Tower						
	For Footing C2 F1	4	1.50	1.50	0.30	2.70	
	For Footing C1	1	3.10	3.10	0.45	4.32	
	Coloumn up to below plinth						
	C2	4	0.60	0.20	2.35	1.13	
		4	0.40	0.20	2.35	0.75	
	C1	4	0.40	0.20	2.60	0.83	
		4	0.20	0.20	2.60	0.42	
	For Plinth						
	PB1	2	7.40	0.20	0.80	2.37	
		2	7.00	0.20	0.80	2.24	
	PB1	2	5.40	0.20	0.80	1.73	
		2	5.00	0.20	0.80	1.60	
	PB2	2	1.85	0.20	0.70	0.52	
		2	1.45	0.20	0.70	0.41	
	Plat form Concrete	1	7.40	7.40	0.20	10.95	
	Coloumn Above +1.00FFL						
	C1	4	0.40	0.20	2.40	0.77	
		4	0.20	0.20	2.40	0.38	
	Beam	2	1.95	0.20	0.45	0.35	
		2	1.85	0.20	0.45	0.33	
	Slab	1	1.95	1.95	0.15	0.57	
	Coloumn Above +2.815m						
	C1	4	0.40	0.20	2.40	0.77	
		4	0.20	0.20	2.40	0.38	
	Beam	2	1.95	0.20	0.45	0.35	
		2	1.55	0.20	0.45	0.28	
	Slab	1	1.95	1.95	0.15	0.57	
	Coloumn Above +6.63m						
	C1	4	0.40	0.20	2.40	0.77	

A.E.E. (Project)

36.23

NEWZEN CONSULTANT Bangalore

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst.Exec.Engineer

@ 36.23 (15

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		4	0.20	0.20	2.40	0.38	
	Beam	2	1.95	0.20	0.45	0.35	
		2	1.55	0.20	0.45	0.28	
	Slab	1	1.95	1.95	0.15	0.57	
	Coloumn Above +0.445m						
	C1	4	0.40	0.20	0.90	0.29	
		4	0.20	0.20	0.90	0.14	
	Beam	2	1.95	0.20	0.35	0.27	
		2	1.55	0.20	0.35	0.22	
	External Slab	4	0.35	1.45	0.15	0.30	
	Coloumn Above +9.445m 2nd Lift Bell Top Slab						
	C1	4	0.40	0.20	1.48	0.47	
		4	0.20	0.20	1.48	0.24	
	Beam	2	1.95	0.20	0.35	0.27	
		2	1.55	0.20	0.35	0.22	
	External Slab	4	0.35	1.45	0.23	0.47	
	Clock Room Bottom Slab						
	Slab	1	1.95	1.95	0.10	0.38	
		1	1.85	1.85	0.20	0.68	
	Invert Beam	2	1.95	0.20	0.40	0.31	
		2	1.55	0.20	0.40	0.25	
	C1	4	0.40	0.20	0.60	0.19	
		4	0.20	0.20	0.60	0.10	
	Beam	2	1.95	0.20	0.40	0.31	
		2	1.55	0.20	0.40	0.25	
	External Slab	1	1.95	1.95	0.10	0.38	
					Present Qty	**42.82**	**Cum**

Paid 14.68

NEWZEN CONSULTANT Bangalore

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst.Exec.Engineer

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Sl No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
)	Providing & removing centeing shuttering, strutting, propping etc., and removal of form work for foundations, footings bases of columns for mass concrete including cost of all materials, labour complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.						
	NES Circle Clock Tower						
	For Footing C2 F1	4	6.00		0.30	7.20	
	For Footing C1	1	12.40		0.45	5.58	
					Present Qty	**12.78**	**Sqm**

NEWZEN CONSULTANT ★ Bangalore ★

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer,
Project Division Yelahanka

A.E.E. (Project)

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

easurement Recorded On:

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
21	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thicknes including cost of all materials, labour complete as per specifications and direction of the Engineer in charge with all lead and lift and directions of the Engineer-In-charge of the work.						
	Coloumn up to below plinth						
	C2	4	2.00		2.35	18.80	
	C1	4	1.20		2.60	12.48	
	For Plinth						
	PB1	4	7.40		0.80	23.68	
		4	7.00		0.80	22.40	
	PB1	4	5.40		0.80	17.28	
		4	5.00		0.80	16.00	
	PB2	4	1.95		0.70	5.46	
		4	1.55		0.70	4.34	
	Plat form Side	4	7.40		0.20	5.92	
	Coloumn Above +1.00FFL						
	C1	4	1.20		2.40	11.52	
	Beam	4	1.95		0.45	3.51	
		4	1.55		0.45	2.79	
	Slab	1	1.95	1.95		3.80	
	Coloumn Above +2.815m						
	C1	4	1.20		2.40	11.52	
	Beam	4	1.95		0.45	3.51	
		4	1.55		0.45	2.79	
	Slab	1	1.95	1.95	0.15	0.29	
	Coloumn Above +6.63m						
	C1	4	1.20		2.40	11.52	
	Beam	2	1.95		0.45	1.76	
		2	1.55		0.45	1.40	
	Slab	1	1.95	1.95		3.80	
	Coloumn Above +9.445m						
	C1	4	1.20	0.20	0.90	4.32	
	Beam	2	1.95	0.20	0.35	1.37	
		2	1.55	0.20	0.35	1.09	
	External Slab	4	0.35	1.45		2.03	
	Coloumn Above +9.445m 2nd Lift Bell						
	C1	4	1.20	0.20	1.48	7.08	

193.27

Asst.Engineer

Asst. Executive Engineer
Project Division
Zone

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Beam	2	1.95	0.20	0.35	1.37	
		2	1.55	0.20	0.35	1.09	
	External Slab	4	0.35	1.45		2.03	
	Clock Room Bottom Slab						
	Slab	1	1.95	1.95		3.80	
	Invert Beam	4	1.95		0.40	3.12	
		4	1.55		0.40	2.48	
	C1	4	1.20		0.60	2.88	
	Beam	4	1.95		0.40	3.12	
		4	1.55		0.40	2.48	
	External Slab	1	1.95	1.95		3.80	
					Present Qty	**226.62**	**Sqm**
					Upto 125%	**51.00**	**Sqm**
					Above 125%	**175.62**	**Sqm**

193.27 18 216.98 165.98

A.E.E. (Project)

Asst.Engineer

Asst. Executive Engineer
Project Division
Asst.Exec.Engineer
Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Discription of Item	No	No	Length	Breadth	Depth	Qty	Unit
Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. - TMT Bars Fe 500 with all lead and lift and directions of the Engineer-In-charge of the work.							
NES Circle Clock Tower							
For Footing C2 F1=1.70mX1.70m							
12mm dia bar both Ways @ 125mmC/c							
1.70/0.125=13Nos	4	13	2.00	0.89		92.56	
	4	13	2.00	0.89		92.56	
Footing for C1 Colomns							
Top and Bottom 12mm Dia bar bothways @ 100mmC/c	1	120	3.30	0.89		352.44	
Coloumn C2							
12Nos of 12mm dia bar	4	12	3.30	0.89		140.98	
Stirrups @8mm dia @ 150mm C/c	4	18	1.45	0.39		40.72	
	4	18	1.45	0.39		40.72	
Coloumn C1							
8Nos of 16mm dia bar	4	8	13.50	1.58		682.56	
Stirrups @8mm dia @ 150mm C/c	4	90	1.05	0.39		147.42	
	4	90	1.05	0.39		147.42	
For Plinth Beam PB1							
PB1=8# 20mm	4	8	7.60	2.47		600.70	
6# 12mm	4	6	7.40	0.89		158.06	
Stirrups @10mm dia @ 150mm C/c	4	49	2.40	0.39		183.46	
	4	49	2.40	0.39		183.46	
PB1							
PB1=8# 20mm	4	8	7.60	2.47		600.70	
6# 12mm	4	6	7.40	0.89		158.06	
Stirrups @10mm dia @ 150mm C/c	4	49	2.40	0.39		183.46	
	4	49	2.40	0.39		183.46	
PB1							
PB1=8# 20mm	4	8	1.95	2.47		154.13	
6# 12mm	4	4	1.95	0.89		27.77	
Stirrups @10mm dia @ 150mm C/c	4	12	2.40	0.39		44.93	
	4	12	2.40	0.39		44.93	
Plat form Double mat							

5235.21

A.E.E. (Project)

NEWZEN CONSULTANT Bangalore

Consultant

Asst.Engineer

Asst. Executive Engineer

Asst.Exec.Engineer

Yelahanka Zone

Top and Bottom 12mm Dia bar bothways @ 100mmC/c	1	148	7.40	0.89		974.728	
Beams 3lifts B1							
4# 16mm dia bar	3	4	2.25	1.58		42.66	
Stirrups @8mm dia @ 150mm C/c	3	13	1.20	0.39		18.252	
Beams B2							
5# 16mm dia bar	1	5	2.25	1.58		17.775	
Stirrups @8mm dia @ 150mm C/c	1	13	1.20	0.39		6.084	
Bell fixing Slab and Beam							
For Beam	1	4	2.25	1.58		14.22	
Stirrups @8mm dia @ 150mm C/c	1	13	1.20	0.39		6.084	
Slab top/bpttom 12mm dia bar both ways	1	80	1.95	0.89		138.84	
Clock bottom slab and Invert beam							
invert beam	1	4	2.25	1.58		14.22	
	1	13	1.20	0.39		6.084	
	1	80	1.95	0.89		138.84	
Clock Top slab and beam							
invert beam	1	4	2.25	1.58		14.22	
	1	13	1.20	0.39		6.084	
	1	80	1.95	0.89		138.84	
					Present Qty	**5797.41**	**Kg**
					Present Qty	**5.80**	**Tn**
					Limitted to	**5.70**	**Tn**
					Upto 125%	**3.21**	**Tn**
					Above 125%	**2.48**	**Tn**

A.E.E. (Project)

NEWZEN CONSULTANTS Consultant

Asst.Engineer

Asst. Executive Engineer
Project Division
Asst.Exec.Engineer
Yelahanka Zone
Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
E-1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge In cement mortar						
	old Toilet						
	Wall	2	7.00	0.23	2.60	8.37	
		2	11.50	0.23	2.60	13.75	
		5	2.00	0.13	2.60	3.25	
		2	4.00	0.23	2.60	4.78	
					Present Qty	**30.16**	**Cum**

A.E.E (Project)

NEWZEN CONSULTANTS Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
E2	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)						
	SSM Protection Wall East Side of Clock Tower						
	East Side	1	7.25	0.75	0.60	3.26	
		1	6.35	0.75	0.60	2.86	
		1	7.25	0.75	0.60	3.26	
	West Side	1	6.45	0.75	0.60	2.90	
		1	8.30	0.75	0.60	3.74	
		1	6.45	0.75	0.60	2.90	
	SSM Protection Wall West Side of Clock Tower						
		1	16.50	0.75	0.60	7.43	
		1	6.30	0.90	0.60	3.40	
		1	16.50	0.90	0.60	8.91	
		1	8.20	0.90	0.60	4.43	
					Present Qty	**43.09**	**Cum**

Assistant Engineer
Project Division Yelahanka

A.E.E. (Project)

Asst. Executive Engineer
Project Division Yelahanka
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
E4	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.						
	East Side	1	7.25	6.35	0.75	34.53	
	West Side	1	6.45	6.35	0.65	26.62	
					Present Qty	**61.15**	**Cum**

NEWZEN CONSULTANTS Bangalore

Assistant Engineer
Project Division Yelahanka

A.E.E. (Project)

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Executive Engineer,
Project Division Yelahanka

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
E-5	Providing and constructing load bearing wall with concrete solid blocks having block ebsity not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 as [er IS 2572:2005 including cost of all materials labour charges, scaffolding. curing hire charges of machineries etc as per specifications Solid concrete blocks of Size 400x150x200 mm with all lead and lift and directions of the Engineer-In-charge of the work.						
	NES Circle Clock Tower						
	For Footing C2 F1	4	1.15		1.95	8.97	
		4	1.15		1.95	8.97	
		4	1.15		1.95	8.97	
		4	1.15		1.25	5.75	
	Deduct Door	-1	0.80		1.90	-1.52	
	For Sump	2	2.40		2.10	10.08	
		2	3.00		3.00	18.00	
					Present Qty	**59.22**	**Cum**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BESCOM, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
E-9	Crawler mounted Crane 35 t capacit						
		25	6			150	
					Present Qty	**150.00**	**Hr**

NEWZEN CONSULTANT Bangalore

Assistant Engineer
Project Division Yelahanka

Asst Executive Engineer
Project Division Yelahanka

Asst Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

MEASUREMENT

"FIRST AND FINAL BILL"

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary,								
	Vide premeasurement page no. 01								
	Total Qty					**28.08**	**Cum**		
	Upto 125%					**24.48**	**Cum**	**309.80**	**7582.32**
	Above 125%					**3.61**	**Cum**	**315.24**	**1136.44**
2	Dismantling the tile work in floor and roof laid in cement or surki mortar including stacking the materials with in 50 m lead of tiles thickness 10mm to 25mm. including cost of materials, labour, HOM								
	Vide premeasurement page no. 02					**80.50**	**Sqm**	**52.69**	**4241.79**
3	Easing of shutters of door. including cost of materials, labour, HOM complete as per specifications.								
	Vide premeasurement page no. 03					**6.00**	**Nos**	**93.58**	**561.45**
4	Scraping plaster in lime or cement mortar from brick / stone masonry.								
	Vide premeasurement page no. 04					**118.43**	**Ton**	**22.71**	**2689.84**
5	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary,								
	Vide premeasurement page no. 05					**31.19**	**Cum**	**369.76**	**11532.06**
6	Dismantling CI or AC rain water Pipes with fittings and clamps and stacking the materials with a lead of 50 meters. including cost of materials, labour, HOM complete as per specifications.								
	Vide premeasurement page no. 06					**50.00**	**m**	**27.26**	**1362.75**
7	Dismantling weather proof course and removing and conveying the debris to a distance upto 200m. including cost of materials, labour, HOM complete as per specifications.								
	Vide premeasurement page no. 07					**8.05**	**Cum**	**792.21**	**6377.31**
8	Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
	Vide premeasurement page no. 08								
	Total Qty					**296.41**	**Cum**		
	Upto 125%					**75.46**	**Cum**	**103.57**	**7815.58**
	Above 125%					**220.95**	**Cum**	**104.72**	**23136.71**
10	Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding								
	Vide premeasurement page no. 09					**157.86**	**cum**	**319.79**	**50482.53**

NEW GEN CONSULTANT * Bangalore *

Asst.Engineer

Asst Exec Engineer

Asst Executive Engineer
Division
Yelahanka Zone

Detailed Measurements

It No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
11	Providing and filling in foundation with granite / trap borken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all								
	Vide premeasurement page no. 10					**4.49**	**Cum**	**2598.31**	**11666.41**
12	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine								
	Vide premeasurement page no. 12								
					Total Qty	**42.94**	**Cum**		
					Upto 125%	**24.66**	**Cum**	**5555.48**	**137011.96**
					Above 125%	**18.28**	**Cum**	**6274.28**	**114679.75**
13	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and sills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
	Vide premeasurement page no. 12					**10.89**	**Cum**	**5798.96**	**63150.63**
15	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And								
	Vide premeasurement page no. 13					**173.81**	**Cum**	**215.31**	**37423.60**
17	Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @								
	Vide premeasurement page no. 15a					**14.68**	**Cum**	**6465.79**	**94885.53**
20	Providing & removing centeing shuttering, strutting, propping etc., and removal of form work for foundations, footings bases of columns for mass concrete including cost of all materials, labour complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
	Vide premeasurement page no. 16					**12.78**	**Sqm**	**276.18**	**3529.63**
21	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thicknes including cost of all materials, labour complete as per								
	Vide premeasurement page no. 18					226.98			
					Total Qty	**226.62**	**Sqm**		
					Upto 125%	**51.00**	**Sqm**	**383.39**	**19552.74**
					Above 125%	**175.62**	**Sqm**	**390.51**	**68579.68**
22	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring					175.98			6486.00
	Vide premeasurement page no. 22								

Asst.Engineer

Asst. Executive Engineer
Asst Exec Engineer
Project Division
Vijayapura Zone

Detailed Measurements

It No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
					Total Qty	**5.69**	**Tn**		
					Upto 125%	**3.21**	**Tn**	**69475.72**	**223190.75**
					Above 125%	**2.48**	**Tn**	**91387.22**	**226640.32**
E1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge In								
	Vide premeasurement page no. 21					**30.16**	**Cum**	**876.58**	**26437.02**
E2	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)								
	Vide premeasurement page no. 22					**43.09**	**Cum**	**5946.07**	**256201.38**
E3	Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed , including cost of								
	Vide premeasurement page no.					**49.25**	**Sqm**	**2647.51**	**130396.63**
E4	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water all								
	Vide premeasurement page no. 23					**61.15**	**Cum**	**446.62**	**27311.16**
E5	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS								
	Vide premeasurement page no. 24					**59.22**	**Sqm**	**1178.77**	**69806.82**
E9	Crawler mounted Crane 35 t capacity								
	Vide premeasurement page no.					**150.00**	**Hr**	**4559.24**	**683886.15**

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Asst.Exec.Engineer

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
14	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications with all lead and lift and directions of the Engineer-In-								
	SSM Protection Wall East Side of Clock Tower								
	East Side	1	7.25	0.45	0.45	1.47			
		1	6.35	0.45	0.45	1.29			
		1	7.25	0.45	0.45	1.47			
	West Side	1	6.45	0.45	0.45	1.31			
		1	8.30	0.45	0.45	1.68			
		1	6.45	0.45	0.45	1.31			
	SSM Protection Wall West Side of Clock								
		1	16.50	0.45	0.45	3.34			
		1	6.30	0.45	0.45	1.28			
		1	16.50	0.45	0.45	3.34			
		1	8.20	0.45	0.45	1.66			
					Present Qty	**18.13**	**Cum**	**6813.75**	**123559.69**

A.E.E. (Project)

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer,
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
24	Providing 20mm thick cement plaster in single coat with cement mortar, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.Outside Plastering with all lead and lift and directions of the Engineer-In-charge of the work.								
	For Sump								
	Floor	1	2.40	2.60		6.24			
	Wall	2	2.40		2.10	10.08			
		2	3.00		2.10	12.60			
					Present Qty	**28.92**	**Sqm**	**309.80**	**8959.37**

NEWZEN CONSULTANTS Bangalore

Assistant Engineer
Project Division Yelahanka

Asst.Executive Engineer,
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
31	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.-do- of size 450 x 150 x 500 mm with all lead and lift and directions of the Engineer-In-charge of the work.									
	kerb stone from East Side of Clock Tower									
	East Side	1	9.50				9.50			
		1	30.00				30.00			
		1	10.00				10.00			
		1	9.50				9.50			
		1	30.00				30.00			
		1	10.00				10.00			
							99.00			
	96.40/.45= Nos of Kerb						220.00			
						Present Qty	**220.00**	**Nos**	**472.42**	**103932.40**

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT ★ Bangalore ★

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

easurement Recorded On:

em lo	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
3	Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications								
	SSM Protection Wall East Side of Clock Tower								
	East Side	1	7.25	0.55		3.99			
		1	6.35	0.55		3.49			
		1	7.25	0.55		3.99			
	West Side	1	6.45	0.55		3.55			
		1	8.30	0.55		4.57			
		1	6.45	0.55		3.55			
	SSM Protection Wall West Side of Clock								
		1	16.50	0.55		9.08			
		1	6.30	0.55		3.47			
		1	16.50	0.55		9.08			
		1	8.20	0.55		4.51			
					Present Qty	**49.25**	**Sqm**	**2647.51**	**130396.63**

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

A.E.E. (Project)

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
6	Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per								
	Footpath from East Side of Clock Tower								
	from East Side	1	9.50	1.10		10.45			
		1	30.00	1.10		33.00			
		1	10.00	1.10		11.00			
		1	9.50	1.10		10.45			
		1	30.00	1.10		33.00			
		1	10.00	1.10		11.00			
					Present Qty	**108.90**	**Sqm**	**2667.51**	**290491.95**

A.E.E. (Project)

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer,
Project Division Yelahanka

Asst. Executive Engineer
Electrician
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

easurement Recorded On:

n	Discription of Item	No	Length	A.Breadth	A.Depth	Qty	Unit	Rate	Amount
	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.								
	Clock tower door	1	0.90		1.80	1.62			
					Present Qty	**1.62**	**Sqm**	**4066.26**	**6587.34**

Assistant Engineer
Project Division Yelahanka

NEWZEN CONSULTANT ★ Bangalore ★

Asst. Executive Engineer
Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
E-8	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on								
	For clock tower GRFC								
	Verticle Line	63	12.80			806.40			
	Support to verticle line	72	1.20			86.40			
	Ladder	6	3.00			18.00			
		2	1.30			2.60			
		2	2.00			4.00			
		2	2.00			4.00			
						921.40			
	50X50X5mm								
	0.05*0.05*.005*7850=3.92Kg/mtr	1	921.40	3.92		3611.9			
					Present Qty	**3611.89**	**Sqm**	**124.43**	**449434.45**

A.E.E. (Project)

Assistant Engineer
Project Division Yelahanka
Project Division Yelahanka

Asst.Executive Engineer
Project Division Yelahanka
oject Division Yelahanl

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANTS Bangalore

Name of Work: Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
10	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose								
	For Clock Tower from South Side								
		3	3.05			9.15			
		3	3.00			9.00			
		3	3.00			9.00			
		3	3.00			9.00			
		3	3.00			9.00			
		3	1.75			5.25			
		3	2.00			6.00			
		3	2.00			6.00			
		3	1.57			4.71			
		3	3.00			9.00			
		3	3.00			9.00			
		3	3.00			9.00			
		3	3.00			9.00			
		3	3.06			9.18			
		3	2.47			7.41			
	Gate	3	1.36			4.08			
		3	2.48			7.44			
						131.22			
	50mm outer dia and 1mm thickness	1	**131.22**	4.83		633.79			
	3.14(D^2-d^2)*L*7850								
	3.14(0.0025-0.0023)*1*7850=4.83Kg/m								
						Present Qty	**633.79**	**Kg**	**555.50**	**352071.79**

A.E.E. (Project)

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer,
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
11	Providing and fixing of Ornamental Granite Pillar of overall height of 8000mm 200x200sqmm, Octagonal to a height of 820mm and carving design at bottom as shown in drawing .and 280mm respectively as per the approved Design and drawing including quarry cutting to the required size and transporting the same from quarry to work spot\ including loading and un loading with all lead and lift etc. complete as per design and drawing. The work shall be carried out as per design and drawing. Firmly fixed to the ground by means of properly designed foundation of size 300mm x 300mm x 300mm in 1:1.5:3 ratio cement concrete The work shall be carried out as per the engineers in charge of the work etc. and completion of the work as per directions of the Engineer-in-charge of								
	Clock Tower	21				21.00			
					Present Qty	**21.00**	**Nos**	**12500.00**	**262500.00**

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
2	Providing and fixing Glass fiber Reinforcement (GFRC) made up of Alkali Resistant Glass fiber which has high durability in cement composition Na20-Ca0-Zr02-Si02(Zirconium 16% min) diameter 13 micro mtr. Fiber Length varying between 18 to 20mm long specifically produced for use in GFRC and complying with PCI-MNL-130. Fixing to existing steel frame work used for purely decorative applications such as window trims, decorative columns exterior friezes or limestone like wall panels and with finishing painting including cost of materials, labour usage charges of machinery and centering works complete as per specification and as per								
	Clock Tower								
	GRC	4	1.55	13.50		83.70			
	Corner Pannnel	1	0.92	13.50		0.92			
	Bottom Pannel	4	1.90	1.21		7.60			
		4	1.90	1.38		7.60			
	Dedcuct bell Space	-4	0.90	1.50		-5.40			
	Door	-1	0.90	1.80		-1.62			
					Present Qty	**92.80**	**Mtr**	**24000.00**	**2227200.00**

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
13	Bell for Clock tower bronze sculpture with following specification a) Making of clay modeling as per the approved schematic sketch b) Making of POP negative mould as per the approved clay model c) Making of FRP (Fiber Reinforced Plastic) casting master pattern d) Making of Bronze Metal (88% of copper and 12% of tin) casting by ABC mould by silica sandprocess with all necessary melting process materials e) Making of hand carving/ Chiseling grinding, brazing, antic bronze oxidizing by acid process including cost of bronze ornamental finishing f) Imported PU Poly utherin lacqor coating g) The height of the bell about 4.5 feet height and dia of 3.5 feet supported on Bell yoke or headstock,with sound bow, Clapper, lip etc,. with a weight of about 140.00 kgs (apporx) including cost t of all necessary raw materials, labour, artizans and semi artizans works including erection, Excluding all applicable taxes								
	Clock Tower bell	1				1.00			
					Present Qty	**1.00**	**Nos**	**350000.00**	**350000.00**

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name of Work:Construction of Watch Tower in NES Circle of Yelahanka sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
E14	4' 6" Clock with back light, Roman digits, with front glass 1.Clock dial design .... : Roman number dials with central Art work as per your selected clock dials. The numbers will be black vinyl cut letters placed on Food Grade Acrylic Imported Sheet of 5mm Thickness. We will produce the clock dial exactly as per your selected design.2. Machine for the tower clocks..... ..... : We will provide GPS based Machine for the tower clock so that the clocks will work with satellite time signals and will display IST Indian Standard Time. 3. Hands for the clock dials..... .. .. : We will provide One No. Hour hand and One No. Minute hand to show time on the clocks. Both the hands will be made with Aluminium Sheet metal and will be dynamically balanced for smooth travelling on the clock dials. The hands will be finished with black powder coat finish . 4. Working power for the tower clocks..... : The tower clocks will be designed to work with 220 Volts AC Single Phase 50Hz. Electric Power. . Battery back up for the tower clocks..... : We will provide 24 hours battery back-up for the tower clocks. The battery will provide power to the clocks for 24 hours on								
	Clock Towe Clock	4				4.00			
						Present Qty	**4.00**	**Nos**	**435000.00**	**1740000.00**
								Sub Total	**8425322.70**
								GST 18%	**692212.09**
								Grand Total	**9117534.78**

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

NEWZEN CONSULTANTS